



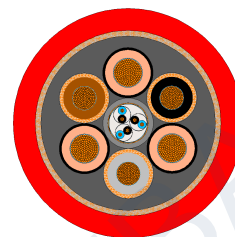
TEBAOFLEX CABLE

DATA SHEET

Mining&Industrial cable

NTSCGECWOEU

1.8/3 kV and 3.6/6 kV medium-voltage coal cutter cable



APPLICATION

Flexible medium-voltage cable for connecting mobile electrical equipment in underground mines, particularly coal-cutting machines. Designed for use in Bretby chains where the cable is exposed to frequent movement, repeated extreme bending loads and low tensile stress. The integrated power, earth, control and pilot elements support demanding mobile mining systems that require a compact, mechanically protected cable construction.

CONSTRUCTION

Component	Description
System 1 - power cores	Flexible stranded tinned copper conductor, heat-resistant EPR rubber insulation type 3GI3, with an easy-strippable outer conductive layer; for 1.8/3 kV or 3.6/6 kV
System 2 - auxiliary cores	Flexible stranded tinned copper conductor with heat-resistant EPR rubber insulation type 3GI3; rated 0.6/1 kV
Earth conductor	Spiral of tinned copper
Centre bundle	Control and pilot cores with expandable and compressible copper/steel conductors, EPR insulation and optional fibre optics, covered by tinned copper wires and a semi-conductive rubber sheath
Inner sheath	Two-layer design: semi-conductive rubber and rubber compound type 5GM5
Armour	Spiral steel wires embedded in the outer sheath, with fibreglass tape to prevent sheath displacement
Outer sheath	Rubber compound type 5GM5; abrasion resistant, tear resistant, oil resistant and flame retardant

CHARACTERISTICS

- Flexible medium-voltage coal cutter cable for mobile underground mining equipment.
- Designed for Bretby chain systems and repeated extreme bending loads.
- Suitable for operation under low tensile stress.
- Expandable and compressible centre bundle supports control and pilot functions.
- Abrasion, tear, oil and flame-resistant outer sheath.

TECHNICAL INFORMATION

Parameter	Unit	Value
Cable standard		VDE 0250 Part 813
Power-core rated voltage U_0/U	kV	1.8/3 or 3.6/6
Auxiliary-core rated voltage U_0/U	kV	0.6/1

TECHNICAL DATA

DIMENSIONS AND WEIGHT

Dimensions and nominal weights by rated-voltage group.

Number of cores x nominal cross section (No. x mm2)	Minimum overall diameter mm	Maximum overall diameter mm	Nominal weight kg/km
1.8/3 kV			
3x50 + 3x(35+35/3) + 2x(2x0.75ST) + 2x0.75UEL	62.0	66.0	7210
3x70 + 3x(50+50/3) + 2x(2x0.75ST) + 2x0.75UEL	64.0	68.0	8200
3x95 + 3x(70+70/3) + 2x(2x0.75ST) + 2x0.75UEL	74.0	78.0	10300
3.6/6 kV			
3x35 + 3x(35+35/3) + 2x(2x0.75ST) + 2x0.75UEL	66.0	72.0	7600
3x50 + 3x(50+50/3) + 2x(2x0.75ST) + 2x0.75UEL	69.0	75.0	9200
3x70 + 3x(70+70/3) + 2x(2x0.75ST) + 2x0.75UEL	76.0	81.0	11150
3x95 + 3x(95+95/3) + 2x(2x0.75ST) + 2x0.75UEL	85.0	90.0	13300

NOTES

- Minimum and maximum overall diameters are stated in millimetres.
- Cable weights are nominal values stated in kilograms per kilometre.

CERTIFICATIONS

